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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,589	01/21/2004	Mikko Blomqvist	915-005.092	3015
4955	7590 07/28/2006		EXAMINER	
WARE FRESSOLA VAN DER SLUYS &			D'AGOSTA, STEPHEN M	
ADOLPHSON, LLP BRADFORD GREEN, BUILDING 5			ART UNIT	PAPER NUMBER
755 MAIN STREET, P O BOX 224			2617	
MONROE, CT 06468			DATE MAILED: 07/28/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/762,589	BLOMQVIST ET	BLOMQVIST ET AL.			
		Examiner	Art Unit				
		Stephen M. D'Agosta	2617				
Period fo	The MAILING DATE of this communication ap r Reply	pears on the cover shee	t with the correspondence a	iddress –			
WHIC - Exten after: - If NO - Failur Any r	CRTENED STATUTORY PERIOD FOR REPLEX. CHEVER IS LONGER, FROM THE MAILING DESIGNATION OF THE MAILING DE	DATE OF THIS COMMU 136(a). In no event, however, ma will apply and will expire SIX (6) e, cause the application to becom	JNICATION. By a reply be timely filed MONTHS from the mailing date of this the ABANDONED (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on 12 J	lulv 2006.					
·	• • • • • • • • • • • • • • • • • • • •	s action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	on of Claims	, ,					
4)⊠	4)⊠ Claim(s) <u>9-12 and 14-20</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
6)⊠)⊠ Claim(s) <u>9-12 and 14-20</u> is/are rejected.						
7)	_						
8)	Claim(s) are subject to restriction and/o	or election requirement.					
Applicati	on Papers						
9)□.	The specification is objected to by the Examin	er					
-	The drawing(s) filed on is/are: a) ac		I to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correct						
11) 🔲 .	The oath or declaration is objected to by the E	xaminer. Note the attac	ched Office Action or form I	PTO-152.			
Priority u	inder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreig ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.	C. § 119(a)-(d) or (f).				
/.	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the price			al Stage			
	application from the International Burea	au (PCT Rule 17.2(a)).					
* S	see the attached detailed Office action for a lis	t of the certified copies	not received.				
Attachmen		_					
	e of References Cited (PTO-892)		iew Summary (PTO-413)				
3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	5) Notice	No(s)/Mail Date e of Informal Patent Application (P	TO-152)			

DETAILED ACTION

Response to Amendment

Please find attached a new office action regarding the RCE received 7-12-2006.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

<u>Claims 9-11, 12, and 15-20</u> rejected under 35 U.S.C. 103(a) as being unpatentable over Rydbeck US 6,922,567 and further in view of Rankin US 2003/0119530 and Hunzinger US 6,957,076.

As per **claims 9, 12, 15, 17-18,** Rydbeck teaches a method for activating a location-based function in a device based on at least one item of a position data of the devices (title, abstract) comprising:

monitoring in the device at least one property of the wireless communication networks and/or the mobile device's location (figure 1 shows the mobile device comprising a GPS receiver, #30 while C5, L50-62 teaches using/measuring signals from the network to determine mobile's location);

conducting the positioning to determine the position of the devices (figure 5 step #100 shows determining the location of the mobile device by either the device itself via GSP and/or by using cellular network, eg. figure 2, #44, which would inherently include BTS-ID, signal strength, triangulation, AOA, TDOA, etc.)

but is silent on

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determining whether to conduct a positioning of the device based on the at least one property of the wireless communication network;

wherein the at least one property comprises a signal strength of a base station of said wireless communication network, said signal strength is measured at intervals and at least information on changes in the signal strength is utilized in determining whether to conduct the positioning;

and wherein whether the device is in an area of a cell to which the location based function is connected is determined by a cell identifier and information on the base station signal strength is used for determining whether to conduct the positioning only when the device is in the area of the cell.

Rankin teaches measuring periodic BTS beacon signals and then, determines it's location and performs various operations (eg. power savings):

"...Coarse positioning techniques, <u>such as broadcast cell</u> <u>identity</u> or network <u>triangulation</u> (for example E-OTD), or fine techniques such as GPS, either on the mobile device or via a network operator..." (Para #20).

Hunzinger teaches a similar operation whereby, based on the user's location, the mobile device performs various operations (title, abstract, figure 4 and C2, L39-45). One skilled could use this system to send a reminder either before or after locating the user.

With further regard to claims 15 and 17, Rydbeck teaches a device and computer program/system (figure 2, #10, #44 and #46) while Rankin teaches that either the mobile device or the network may perform the positioning determination "...Coarse positioning techniques, such as broadcast cell identity or network triangulation (for example E-OTD), or fine techniques such as GPS, either on the mobile device or via a network operator..." (Para #20).

With further regard to claim 20, Rydbeck teaches a processor (figure 1) and steps (figure 5) which require software to control the operations (The examiner notes that Hunzinger's figures 1b and 2 show parallel concepts).

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It would have been obvious to one skilled in the art at the time of the invention to modify Rankin, such that (monitoring) at least one property of the wireless communication network, to provide means for the mobile to determine location based on network signals rather than only from GPS signals.

It would have been obvious to one skilled in the art at the time of the invention to modify Rankin, determining whether to conduct a positioning of the device based on the at least one property of the wireless communication network AND wherein the at least one property comprises a signal strength of a base station of said wireless communication network, said signal strength is measured at intervals and at least information on changes in the signal strength is utilized in determining whether to conduct the positioning AND wherein whether the device is in an area of a cell to which the location based function is connected is determined by a cell identifier and information on the base station signal strength is used for determining whether to conduct the positioning only when the device is in the area of the cell, to provide means for determining location via many well known ways, including cell or BTS ID's.

As per claims 10 and 19, Rydbeck teaches claim 9, wherein on the basis of positioning determining whether or not to the location based function is determined (C1, L45-55 teaches determining position of mobile and C1, L56 to C2, L8 teaches determining if the mobile is near a predetermined item of interest, and if so, a function is executed to send a message/alert to the mobile device user).

As per **claim 11**, Rydbeck teaches claim 1, wherein said function is an act of presenting a message (C1, L45-55 teaches determining position of mobile and C1, L56 to C2, L8 teaches determining if the mobile is near a predetermined item of interest, and if so, a function is executed to send a message/alert to the mobile device user).

As per **claim 16**, Rydbeck teaches claim 18, wherein it is a wireless communication device (figure 2 shows a wireless device).

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<u>Claim 14</u> rejected under 35 U.S.C. 103(a) as being unpatentable over Rydbeck, Rankin and Hunzinger and further in view of Loke et al. US 6,728,528.

As per **claim 14**, Rydbeck teaches claim 12, **but is silent on** wherein strength of a signal of a base station is arranged to be used as the monitored property, and that the device comprises measurement means for measuring signal strength of at least two signal received from a base station, wherein at least information on a changing of the signal strength is arranged to be utilized in the determination means for said use in determining whether positioning of the device is conducted.

Rankin teaches using triangulation of received signals to determine location:

"...The mobile device further comprises a location detector stage which may take a number of forms, and which is coupled with a store of location data identifying locations (and optionally ancillary data) for the beacons 12, 14, 20. Coarse positioning techniques, such as broadcast cell identity or network triangulation (for example E-OTD), or fine techniques such as GPS, either on the mobile device or via a network operator, can be used to give absolute positioning data.

The examiner notes that TDOA is also a well known position-based method which uses time differential of arrival of signals AND/OR multiple signals, which reads on "two signals received".

Loke teaches detecting and monitoring a second BTS's pilot signal strength whereby a handoff is commenced when said second BTS's signal strength is above a certain threshold:

"...Once detected, the phone 3 continues to monitor the signal strength of the neighboring pilot channel. When the signal strength of the neighboring pilot channel exceeds the predetermined threshold, the system 1 initiates the hand off from the cell C1 to the cell C2..." (C13, L34-46)

It would have been obvious to one skilled in the art at the time of the invention to modify Rankin, such that timing of a signal of a base station is arranged to be used as

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the monitored property, and that the device comprises measurement means for measuring signal strength of at least one signal received from a base station, wherein at least information on a changing of the signal strength is arranged to be utilized in the determination means for said use in determining whether positioning of the device is conducted, to provide means for the various ways of positioning to be used to determine location.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. D'Agosta whose telephone number is 571-272-7862. The examiner can normally be reached on M-F, 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

STEVE M. D'AGOSTA
PRIMARY EXAMINER
7-19-06